

Healing Abutments



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Description

Healing abutments are premanufactured dental implant abutments which can be directly connected to the endosseous dental implant to support healing of the surrounding soft tissue.

Healing Abutments / Healing Screw

- Healing Abutments Nobel Biocare N1™ TCC are available in NP/RP platforms, feature a tri-oval conical connection, and can be used with Nobel Biocare's N1™ TiUltra™ TCC Implant system.
- Healing Abutments Conical Connection are available in NP/RP/WP platforms, feature a conical connection and can be used with Nobel Biocare's NobelActive®, NobelParallel™ CC and/or NobelReplace® CC implant systems.
- Healing Abutments Bridge Conical Connection are available in NP/RP/WP platforms, feature a conical connection and can be used with Nobel Biocare's NobelActive®, NobelParallel™ CC and/or NobelReplace® CC implant systems.

- Healing Abutments NobelReplace® are available in NP/RP/WP and 6.0 platform, feature an internal tri-channel connection and can be used with Nobel Biocare's NobelReplace®, Replace Select™ and/or NobelSpeedy® Replace™ implant systems.
- Healing Screw Replace Select™ is available in NP and RP platforms, feature an internal tri-channel connection and can be used with Replace Select™ TC.
- Healing Abutments Brånemark System® are available in NP/RP/WP platforms, feature an external hex connection and can be used with Nobel Biocare's Brånemark System® and/or NobelSpeedy® Groovy® implant systems. The RP can be used with NobelZygoma.
- Healing Abutments Brånemark System® Zygoma feature an external hex connection and can be used with Nobel Biocare's Brånemark System® Zygoma implant system.
- Healing Cap Multi-unit Abutment is made of titanium alloy Ti-6Al-4V or polybutylene terephthalate (PBT) with a screw of titanium alloy Ti-6Al-4V with DLC (Diamond Like Carbon) coating.
- Healing Abutments Anatomical PEEK Conical Connection are available in WP platform, feature a conical connection and can be used with Nobel Biocare's NobelActive® and/or NobelParallel™ CC implant systems. Healing Abutments Anatomical PEEK are co-packed with a clinical screw.

Table 1 summarizes the implant platforms which are compatible with the various healing abutments, including the specifications for required screwdrivers, and other key information for each type of healing abutment, based on their connection type.

Healing Abutment for	Available Platforms	Color Coding	Screwdriver
Conical Connection (CC)	3.0	None	Unigrip™
	NP	●	
	RP	●	
	WP	●	
Tri-oval Conical Connection (TCC)	NP	● (screw)	Omnigrip™ Mini
	RP	● (screw)	
Tri-channel	NP	●	Unigrip™
	RP	●	
	WP	●	
	6.0	●	
External Hex	NP	None	Unigrip™
	RP	None	
	WP	None	

Table 1 – Healing Abutments – Compatible Implant Platforms and Screwdrivers



Healing Screw for	Available platforms	Color coding	Screwdriver
Tri-channel	NP		Unigrip™
	RP		

Table 2 – Healing Screw – Compatible Implant Platforms and Screwdrivers

Healing Abutment Anatomical PEEK for	Available platforms	Color coding	Screwdriver
Conical Connection (CC)	WP	None	Unigrip™

Table 3 – Healing Abutments Anatomical PEEK – Compatible Implant Platforms and Screwdrivers

Intended Use / Intended Purpose

Healing Abutments for Conical Connection, Healing Screw Replace Select™, Healing Abutments NobelReplace®, Healing Abutments Brånemark System®, Healing Abutments Brånemark System® Zygoma

Dental implant abutments are intended to be used in the upper or lower jaw and used for supporting tooth replacements to restore chewing function. Healing Abutment and Healing Cap is intended to be used as a temporary component to an endosseous implant to allow healing of the soft tissue.

Healing Abutments Anatomical PEEK

Dental implant abutments are intended to be used in the upper or lower jaw and used for supporting tooth replacements to restore chewing function.

The PEEK Healing Abutment is intended to be used as a temporary component to an endosseous implant to allow healing of the soft tissue.

Healing Abutments Nobel Biocare N1™ TCC

Healing Abutments are intended to be used as a temporary component to an endosseous implant to allow healing of the soft tissue.

Indications

Healing Abutments for Conical Connection, Healing Screw Replace Select™, Healing Abutments NobelReplace®, Healing Abutments Brånemark System®, Healing Abutments Brånemark System® Zygoma

The Healing Abutments and Healing Caps are pre-manufactured prosthetic components to be directly connected to the endosseous dental implants or abutments and are indicated as temporary components for one single tooth to full arch denture procedures.

In addition, for Healing Abutment Conical Connection:

- For internal conical connection implants a specific Healing Abutment Bridge is available.
- The Healing Abutment Bridge is specially designed to avoid any bone to grow on platform and by that prepare for the specially designed Impression Coping Bridge. Using the series of components facilitates the treatment and prepare for an implant level bridge.

Healing Abutments Anatomical PEEK

The Nobel Biocare anatomical PEEK Healing are pre-manufactured, adjustable prosthetic components directly connected to endosseous dental implants and are intended for temporary use up to 180 days as an aid in prosthetic rehabilitation.

Healing Abutments Nobel Biocare N1™ TCC

Healing abutments are indicated for use with endosseous dental implants in the maxilla or mandible for supporting single tooth to full arch denture procedures.

Healing abutments Nobel Biocare N1™ TCC are indicated for use for up to 180 days.

Contraindications

It is contraindicated to use Healing Abutments, Healing Screw and Healing caps in:

- Patients who are medically unfit for an oral surgical procedure.
- Patients who are allergic or hypersensitive to commercially pure titanium, titanium alloy Ti-6Al-4V (titanium, aluminum, vanadium), polybutylene terephthalate (PBT) or DLC (Diamond Like Carbon) or PEEK (Polyetheretherketone).

Cautions

General

Close cooperation between surgeon, restorative dentist, and dental laboratory technician is essential for successful implant treatment.

It is strongly recommended that Nobel Biocare surgical instruments and prosthetic components are used only with Nobel Biocare implants, as combining components that are not dimensioned for correct mating can lead to mechanical and/or instrumental failure, damage to tissue, or unsatisfactory esthetic results.

Before Surgery

Special attention must be given to patients who have local or systemic factors that could interfere with the healing process of either bone or soft tissue or the osseointegration process (e.g., cigarette smoking, poor oral hygiene, uncontrolled diabetes, oro-facial radiotherapy, steroid therapy, and infections in the neighboring bone). Special caution is advised in patients who receive bisphosphonate therapy.

In general, implant placement and prosthetic design must accommodate individual patient conditions.

In the case of bruxism, other parafunctional habits, or unfavorable jaw relationships, reappraisal of the treatment option or appropriate pre- and post-treatment measures may be considered.

The device has not been evaluated in pediatric/adolescent patients and is not recommended for use in children. Routine treatment is not recommended for pediatric patients until the end of the jaw bone growth phase has been properly documented.

Pre-operative hard tissue or soft tissue deficits may yield a compromised esthetic result or unfavorable implant angulations.

All components, instruments, and tooling used during the clinical and laboratory procedure must be maintained in good condition and care must be taken that instrumentation does not damage implants or other components.

At Surgery

Because of the small sizes of the devices, care must be taken that they are not swallowed or aspirated by the patient. It is appropriate to use specific supporting tools to prevent aspiration of loose parts (e.g., gauze, a dental dam, or throat shields).

After Surgery

To secure a successful long-term treatment outcome, it is advised to provide comprehensive regular patient follow up after implant treatment and to inform the patient about appropriate oral hygiene.

Handling Procedure

1. Select the appropriate abutment and check the occlusal clearance.
2. Connect the abutment to the implant and hand-tighten using the dedicated screwdriver. See Table 1 for compatibility. It is recommended to verify the final abutment seating using radiographic imaging.
3. If removal of the abutment is needed, untighten it using the dedicated screwdriver.
4. For abutments featuring the tri-oval conical connection, if the removal is not possible, use the Abutment Retrieval tool. Refer to Nobel Biocare IFU1041 for information regarding the Abutment Retrieval Tool.

Handling procedure Healing Abutment PEEK

1. Select appropriate healing abutment. Height may be adjusted by use of a rotary instrument (e.g., carbide or acrylic bur).
2. The tissue facing axial contours of the abutment may be modified to achieve the desired shape. If axial modification is done, polishing with silicone points or similar methods is recommended.
3. The modified abutment is seated on the implant and manually tightened using the Unigrip™ Screwdriver.

Materials

- Healing Abutments and Healing Screw: Titanium alloy (90% Ti, 6% Al, 4% V) according to ASTM F136 and ISO 5832-3.
- Clinical screws for Healing Abutments Nobel Biocare N1™ TCC and for Healing Abutments Anatomical PEEK: Titanium alloy (90% Ti, 6% Al, 4% V), according to ASTM F136 and ISO 5832-3 and DLC (Diamond Like Carbon) coating.
- Healing Cap Multi-unit Abutment: Polybutylene terephthalate (PBT) or titanium alloy 90% Ti, 6% Al, 4% V and DLC (Diamond Like Carbon) coating.
- Healing Abutments Anatomical PEEK: PEEK (Polyetheretherketone).

Sterility and Reusability Information

Healing Abutments have been sterilized using irradiation and are intended for single use. Do not use after the labeled expiration date.

Warning Do not use the device if the packaging has been damaged or previously opened as the device sterility and/or integrity may be compromised.

Caution Healing Abutments are single use products and must not be reprocessed. Reprocessing could cause loss of mechanical, chemical and/or biological characteristics. Reuse could cause local or systemic infection.

Magnetic Resonance (MR) Safety Information

MR Safety Information for Single Tooth Restoration

MR Safety Information



Non-clinical testing has demonstrated that Healing abutments are MR conditional. A patient with this device can be safely scanned in an MR system meeting the following conditions mentioned here below. Failure to follow these conditions may result in injury to the patient.

Nominal value(s) of Static Magnetic Field [T]	1.5-Tesla (1.5 T)	3-Tesla (3 T)
Maximum Spatial Field Gradient [T/m and gauss/cm]	Maximum spatial field gradient of 58.9 T/m (5,890 G/cm).	
RF Excitation	Circularly Polarized (CP).	
RF Transmit Coil Type	Whole body transmit coil.	
Maximum Whole-Body SAR [W/kg]	Inferior to the neck: 2.0 W/kg Superior to the neck: 0.5 W/kg	Inferior to the xyphoid: 2.0 W/kg Between the xyphoid and neck: 1.0 W/kg Superior to the neck: 0.5 W/kg
Limits on Scan Duration	Under the scan conditions defined above, the dental implant systems are expected to produce a maximum temperature rise less than 6.0°C after 15 minutes of continuous scanning.	
MR Image Artifact	In non-clinical testing, the image artifact caused by the dental implant systems extend radially approximately 3.0 cm from the devices or device assemblies when imaged in a 3 T MRI system.	

MR Safety Information for Single Tooth Configurations Zygoma Implants (applicable only during Zygoma Implant healing phase)

MR Safety Information



Non-clinical testing has demonstrated the Brånemark System® Zygoma Healing Abutment, Healing Abutment Bmk Syst RP (when used with Zygoma) is MR conditional. A patient with this device can be safely scanned in an MR system meeting the following conditions mentioned here below. Failure to follow these conditions may result in injury to the patient.

Nominal value(s) of Static Magnetic Field [T]	1.5-Tesla (1.5 T)	3-Tesla (3 T)
Maximum Spatial Field Gradient [T/m and gauss/cm]	Maximum spatial field gradient of 58.9 T/m (5,890 G/cm).	
RF Excitation	Circularly Polarized (CP).	
RF Transmit Coil Type	Whole body transmit coil.	
Maximum Whole-Body SAR [W/kg]	Inferior to the shoulders: 2.0 W/kg Superior to the shoulders: 0.2 W/kg	Inferior to the xyphoid: 2.0 W/kg Superior to the xyphoid: 0.2 W/kg
Limits on Scan Duration	Under the scan conditions defined above, the dental implant systems are expected to produce a maximum temperature rise less than 6.0°C after 15 minutes of continuous scanning.	

MR Image Artifact	In non-clinical testing, the image artifact caused by the dental implant systems extend radially approximately 2.4 cm from the devices or device assemblies when imaged in a 3 T MRI system.
Caution	Configurations with more than 2 Zygoma implants have not been evaluated for safety and compatibility in the MR environment. They have not been tested for heating, migration, or image artifact in the MR environment. The safety of configurations with more than 2 Zygoma implants in the MR environment is unknown. Scanning a patient who has this configuration may result in patient injury.
Implant placement with intention to restore at prosthetic level with PIBs or IBOs (multiple tooth restorations): Please consult IFU for NobelProcera® Implant Bridge Titanium and Zirconia, NobelProcera® Crown and Bridge, NobelProcera® HT ML FCZ, and NobelProcera® Implant Bar Overdenture for use as part of a bridge configuration.	

Storage, Handling and Transportation

The device must be stored and transported in dry conditions in the original packaging at room temperature and not exposed to direct sunlight. Incorrect storage and transportation may influence device characteristics leading to failure.

Disposal

Safely discard potentially contaminated or no longer usable medical devices as healthcare (clinical) waste in accordance with local healthcare guidelines, country and government legislation or policy.

Separation, re-cycling or disposal of packaging material shall follow local country and government legislation on packaging and packaging waste, where applicable.

Manufacturer and Distributor Information

Manufacturer



Nobel Biocare AB
PO Box 5190, 402 26
Västra Hamngatan 1
411 17 Göteborg
Sweden
www.nobelbiocare.com

Distributed in USA by

Nobel Biocare USA, LLC
22715 Savi Ranch Parkway
Yorba Linda, CA, 92887
USA

Caution Federal law restricts this device to sale by or on the order of a licensed physician or dentist.

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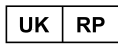
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Symbols Glossary

The following symbols may be present on the device labeling or in information accompanying the device. Refer to the device labeling or accompanying information for the applicable symbols.



Authorized Representative in the European Community / European Union



UK Responsible Person



Authorised Representative in Switzerland



Sterilized using Ethylene Oxide



Sterilized using irradiation



Sterilized using steam or dry heat



Batch code



Catalogue number



Unique Device Identifier



Serial number



Medical device



Magnetic resonance safe



Caution



Magnetic resonance conditional



Non-sterile



Contains hazardous substances



Contains or presence of DEHP phthalate



Contains or presence of natural rubber latex



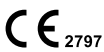
Contains or presence of phthalate



Contains biological material of animal origin



CE mark



CE mark with Notified Body number



UKCA mark



UKCA mark with Approved Body number



Consult instructions for use



For prescription use only



[symbol.glossary.nobelbiocare.com ifu.nobelbiocare.com](https://symbol.glossary.nobelbiocare.com/ifu.nobelbiocare.com)

Link to Online Symbols Glossary and IFU Portal



Date of manufacture



Manufacturer



Use-by date



Upper limit of temperature



Temperature limit



Do not resterilize



Do not re-use



Non-pyrogenic



Date



Tooth number



Patient number



Patient identification



Health care centre or doctor



Patient information website



EU Importer



Swiss Importer



Double sterile barrier system



Single sterile barrier system



Single sterile barrier system with protective packaging inside



Single sterile barrier system with protective packaging outside



Do not use if package is damaged and consult instructions for use



Keep away from sunlight



Keep dry